Ali Abdari

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Website

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GitHub
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in LinkedIn



Education

2023 – present	Ph.D. Student, University of Naples Federico II, University of Udine, Italy Artificial Intelligence. Area: Complex 3D Scene and Metaverse Retrieval Supervisor: Prof. Giuseppe Serra Expected Graduation: October 2025
2016 – 2019	M.Sc. Kharazmi University, Iran Computer Science. Thesis title: Action Recognition in Compressed Video. Supervisor: Prof. Azadeh Mansouri GPA: 18.34/20
2012 – 2016	 B.Sc. Kharazmi University, Iran Computer Engineering. Thesis title: <i>Reporting Financial affairs using Business Intelligence</i>. Supervisor: Prof. Zahra Nilfroushan GPA: 16.98/20

Selected Publications (Google Scholar)

Conference Proceedings

- A. Abdari, A. Falcon, and G. Serra, "A language-based solution to enable metaverse retrieval," in *International Conference on Multimedia Modeling*, Springer, 2024, pp. 477–488.
- A. Abdari, A. Falcon, and G. Serra, "Adoctera: Adaptive optimization constraints for improved text-guided retrieval of apartments," in *Proceedings of the 2024 International Conference on Multimedia Retrieval*, 2024, pp. 1043–1050.
- A. Falcon, A. Abdari, and G. Serra, "Hierartex: Hierarchical representations and art experts supporting the retrieval of museums in the metaverse," in *International Conference on Multimedia Modeling*, Springer, 2024, pp. 60–73.
- A. Abdari, A. Falcon, and G. Serra, "Farmare: A furniture-aware multi-task methodology for recommending apartments based on the user interests," in *Proceedings of the IEEE/CVF International Conference on Computer Vision*, 2023, pp. 4293–4303.
- A. Abdari, A. Falcon, and G. Serra, "Metaverse retrieval: Finding the best metaverse environment via language," in *Proceedings of the 1st International Workshop on Deep Multimodal Learning for Information Retrieval*, 2023, pp. 1–9.
- N. Honarjoo, A. Abdari, and A. Mansouri, "Violence detection using pre-trained models," in 2021 5th International conference on pattern recognition and image analysis (IPRIA), IEEE, 2021, pp. 1–4.

Journal Articles

- A. Falcon, A. Abdari, and G. Serra, "Alcer3d: Adaptive learning constraints for enhanced retrieval of complex indoor 3d scenarios," *IEEE Transactions on Multimedia*, 2025.
- N. Honarjoo, A. Abdari, and A. Mansouri, "Violence detection in compressed video," *Multimedia Tools and Applications*, pp. 1–14, 2024. *O* URL: https://link.springer.com/article/10.1007/s11042-024-19478-0.

A. Abdari, P. Amirjan, and A. Mansouri, "Speeding up action recognition using dynamic accumulation of residuals in compressed domain," *arXiv preprint arXiv:2209.14757*, 2022.

Academic Activities and Achievements

2025	Organizing 4th edition of CV4Metaverse Workshop at CVPR 2025, Nashville, USA		
		Selected as a Local Organizer Chair of the IRCDL 2025 conference	
		Supervising a Ph.D. student in agricultural and meteorological data processing using machine learning.	
		Supervising a researcher in the field of processing plant genetic data using machine learning.	
2024		Organizing 3rd edition of CV4Metaverse Workshop at ECCV 2024, Milan, Italy	
		Organizing Metaverse Apartment Retrieval Challenge at CV4Metaverse Workshop at ECCV 2024, Milan, Italy	
		Participation in the Summer School on Computer Vision in the Age of Large Language Models, ICVSS, Sicily, Italy	
2023		Participation in the Summer School on Large-Scale AI for Research and Industry, ELLIS, Modena, Italy	
2022		Achieved Scholarship at the University of Naples Federico II	
2016		Got selected among the first four talented students to start the Master's program without en- trance exam	

Professional and Academic Experiences

2023 - 2024	Teacher Assistant of Deep Learning, University of Udine.
2021 - 2023	Computer Vision and Machine Learning Researcher Kharazmi University.
2022	Computer Vision Engineer Caica Company.
2019 – 2021	Computer Vision Engineer Iran's National Elites Foundation.
2017 – 2018	Python Developer Vestaak
2017 - 2019	Teacher Assistant of Digital Image Processing, Artificial Neural Network, Kharazmi University.
2013 – 2016	Teacher Assistant of Data structure, Automata theory, Design and Analysis of Algorithms, Introduction to Programming and Advanced Programming, Kharazmi University.

Skills

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Languages	English(Fluent, 7.5 IELTS band score), Italian (C1), Persian(Native).
Coding	Python, C++, C, MATLAB, R, Java, PHP, C Sharp, SQL, Julia.
Databases	Mysql, SQL Server, sqlite, MongoDB.
Web Dev	НтмL, css, JavaScript, Bootstrap.
ML/DL Frameworks	PyTorch, Keras, HuggingFace, OpenCV, Dlib, MediaPipe, NumPy, Pandas, Mat-PlotLib, and SciKit-Learn.

Selected Projects

Cross Modal Processing

3D scene/Point Cloud Retrieval, Contrastive Learning, Text-to-Scene alignment

Selected Projects (continued)

Video Processing	Action Recognition in raw and compressed video, Primates Behaviour Analy- sis, Traffic Video Analysis, Video Synopsis, Multi-Object Tracking in surveil- lance videos, Fatigue Detection using eye features
Image Processing	OCR, Water Marking, Segmentation, Classification
Tabular data	Prediction of Agricultural and Meteorological data, Genetic data processing to identify patterns
Miscellaneous	EEG Signal Analysis, Risk Assessment in Autonomous Vehicles, Vehicle Po- sition Prediction using AI, Web Crawling to Collect Data

References

- **Prof. Giuseppe Serra**, Associate Professor at University of Udine, Udine, Italy, email: giuseppe. serra@uniud.it
- **Prof. Azadeh Mansouri**, Assistant Professor at the Department of Electrical and Computer Engineering at Kharazmi University, Tehran, Iran, email: a_mansouri@khu.ac.ir